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TITLE: RUBBER REINFORCING CORD MADE OF POLYBENZAZOLE FIBER

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ABSTRACT:

PROBLEM TO BE SOLVED: To provide a rubber-reinforcing cord made of a twisted polybenzazole fiber having small strength lowering even by exposing to a high-temperature and humidity atmosphere for a long period.

SOLUTION: A polybenzazole fiber having a strength retention of $\geq 80\%$ after the treatment in an atmosphere of 80°C and 80% relative humidity for 240 hrs in a state twisted at a twist coefficient of 30 is produced by incorporating a yarn with an organic pigment having high heat-resistance represented by the thermal decomposition temperature of $\geq 200^{\circ}\text{C}$ and soluble in a mineral acid, preferably containing $-\text{N}=\text{}$ and/or $\text{NH}-$ group in the molecular structure, especially perinones and/or perylenes, phthalocyanines or quinacridones. The rubber-reinforcing cord is produced by using the polybenzazole fiber at least as a part of the cord.

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